
U.S. Department of the Interior • U.S. Geological Survey

MINERAL INDUSTRY SURVEYS

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MANGANESE IN FEBRUARY 1997

In February, reported consumption of manganese ore containing 35% or more manganese, exclusive of that at iron and steel plants, was 37,500 metric tons, which was a slight decrease compared with that of the previous month, according to the U.S. Geological Survey. This brought the revised year-to-date total to 76,200 tons. These figures increase to 42,000 and 85,200 when estimates for annual respondents are added on the basis of 1994 data. Corresponding industry stocks of ore at the end of the month were estimated as 331,000 tons, which includes an estimate for annual respondents based on 1994 data. This was also a slight decrease in comparison with the corresponding figure for stocks at the end of January. (Data for the most recent 13 months are graphed on page 2.)

The next report of data on domestic consumption and stocks of manganese ferroalloys and metals will pertain to the January through March quarter of 1997.

Note

Early availability of foreign trade statistics via FaxBack: The January trade data appearing in this report were placed on FaxBack in preliminary form as of April 7. The FaxBack document number for these preliminary tables was 420201.

Foreign trade data for February will appear in a subsequent report. The data for January tabulated in this report indicate that receipts of manganese units as ferromanganese were the least since August 1995. Among export quantities, those of ore were the greatest since July 1991 and those of metal the greatest since March 1991. Most of the ore exported was destined for the

Netherlands.

The Defense Logistics Agency (DLA), U.S. Department of Defense, reported for February two cash disposals from the National Defense Stockpile under DLA-ORES-71: 1,542 tons of chemical-grade ore and 136 tons of metallurgical-grade ore, all to American Minerals Inc., King of Prussia, PA.

In South Africa, ground was broken for installation of a decarburizing furnace for the refined ferromanganese plant of Cato Ridge Alloys (Pty) Ltd.¹ This was at the Cato Ridge plant of Feralloys Ltd., a joint venture partner (50%) in this project along with Japan's Mizushima Ferro Alloy Co. Ltd. (40%) and Sumitomo Corp. (10%). (See the MANGANESE IN SEPTEMBER 1996 report.)

The Geological Society of London has issued Special Publication No. 119, "Manganese Mineralization: Geochemistry and Mineralogy of Terrestrial and Marine Deposits." This 370-page book is comprised of chapters by various authors and contains review and site-specific chapters that are grouped into the main sections of "Precambrian deposits," "Cenozoic deposits," and "Geochemistry and mineralogy." The book can be ordered from the Society in London by fax via 01225 442836 and in the United States through the AAPG Bookstore in Tulsa, OK, whose telephone number is (918) 584-2555 and fax number is (918) 560-2652.

¹The TEX Report. V. 29, No. 6772, Feb. 7, 1997, p. 1.

TABLE 1
SELECTED U.S. FOREIGN TRADE IN MANGANESE 1/

(Metric tons, manganese content) 2/

	Imports for consumption					Exports		
	Ore and dioxide		Ferroalloy and metal		Total	Ore	Ferroalloy and metal	Total
1996:								
January	8,860	3/	47,100	3/	56,000	386	1,540	1,930
1997:								
January	14,900	3/	25,400		40,300	3,450	1,370	4,820

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ As reported except as estimated for imports of manganese dioxide and manganese waste and scrap and for exports from gross weights.

3/ All or part of these data have been referred to the Bureau of the Census for verification.

Source: Bureau of the Census.

TABLE 2
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN JANUARY 1997 1/

(Metric tons)

Source	Gross weight	Mn content	Customs value
India	380	209	\$331,000
Mexico	3,250	2,120	1,530,000
Norway	64	40	64,700
South Africa	12,700	8,550	5,900,000
Total	16,400	10,900	7,820,000
Total, general imports	16,400	10,900	7,820,000

1/ Data are rounded to three significant digits; may not add to totals shown.

Source: Bureau of the Census.

TABLE 3
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN JANUARY 1997 1/

(Metric tons)

Source	Gross weight	Mn content	Customs value
Low carbon:			
Japan	1,500	1,210	\$1,320,000
South Africa	260	242	446,000
Total, low carbon	1,760	1,450	1,770,000
Total, general imports of low carbon	1,760	1,450	1,770,000
Medium carbon, 1%-2% C:			
Mexico	3,920	3,150	2,850,000
South Africa	120	94	112,000
Total, m.c., 1%-2% C	4,040	3,240	2,960,000
Total, general imports of medium carbon	4,040	3,240	2,960,000
Medium carbon, 2%-4% C:			
Canada	82	33	11,200
Total, m.c., 2%-4% C	82	33	11,200
Total, general imports of medium carbon	82	33	11,200
High carbon:			
Brazil	3,510	2,660	1,390,000
South Africa	7,650	5,990	3,210,000
Total, high carbon	11,200	8,660	4,600,000
Total, general imports of high carbon	11,200	8,660	4,600,000
Grand total	17,000	13,400	9,340,000
Grand total, general imports	17,000	13,400	9,340,000

1/ Data are rounded to three significant digits; may not add to totals shown.

Source: Bureau of the Census.

TABLE 4
U.S. IMPORTS 1/ OF MANGANESE ORE (20% OR MORE MN) IN JANUARY 1997 2/

(Metric tons)

Source	20% - 47% Mn		47% or more Mn		Total	
	Gross weight	Mn content	Gross weight	Mn content	Gross weight	Mn content
Belgium	--	--	6 3/	5 3/	6	5
Gabon	--	--	25,000	13,000	25,000	13,000
Mexico	1,490	593 4/	--	--	1,490	594
Total	1,490	593	25,000	13,000	26,500	13,600

1/ Quantities for general imports and imports for consumption are identical.

2/ Data are rounded to three significant digits; may not add to totals shown.

3/ All or part of these data have been referred to the Bureau of the Census for verification.

4/ Includes U.S. Geological Survey's conversion of part of reported data (from apparent MnO₂ content to Mn content).

Source: Bureau of the Census.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE AND MANGANESE METAL
IN JANUARY 1997 1/

(Metric tons, gross weight)

Source	Manganese dioxide		Manganese metal	
	Quantity	Customs value	Unwrought	Other
			Quantity	Quantity
Australia	1,000	\$1,400,000	--	--
Belgium	36	66,100	--	--
Brazil	64	88,400	--	--
China	--	--	200	--
France	--	--	--	12
Germany	8	39,000	--	(2/)
Ireland	782	1,120,000	--	--
Japan	7	8,110	--	--
Mexico	--	--	--	2
South Africa	261	367,000	870	--
Total	2,160	3,080,000	1,070	15
Total, general imports	2,200	3,140,000	1,110	15

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Less than 1/2 unit.

Note: Imports for consumption of metallic manganese waste and scrap totaled 36 tons, all of which was from Norway.

Source: Bureau of the Census.

TABLE 6
U.S. EXPORTS OF MANGANESE ORE (20% OR MORE MN), FERROMANGANESE,
SILICOMANGANESE, AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN JANUARY 1997 1/

(Metric tons, gross weight)

	Manganese ore	Ferromanganese, 2% or less C	Silicomanganese	Manganese metal 2/
Belgium	--	--	--	267
Brazil	--	--	--	39
Canada	213	476	118	139
Colombia	--	--	--	3
Italy	377	--	--	--
Japan	--	--	--	129
Mexico	--	20	71	9
Netherlands	5,630	3	--	--
Norway	683	--	--	--
Spain	--	--	9	--
Taiwan	--	--	--	(3/)
United Kingdom	--	--	--	193
Total	6,900	498	198	779

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Includes manganese-aluminum, some other alloys, and waste and scrap.

3/ Less than 1/2 unit.

Note: Exports of ferromanganese with more than 2% carbon totaled 78 tons, of which 77 tons went to Canada and 1 ton went to Mexico.

Source: Bureau of the Census.

TABLE 7
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN JANUARY 1997, BY CLASS 1/

Class	Gross weight (metric tons)	Value 2/ (thousands)	Principal sources and destinations: gross weight (metric tons); value (thousands) 2/
Imports for consumption:			
Manganese oxides other than dioxide	121	\$226	South Africa 54; \$147
Sulfates, basket category, including manganese sulfate	595	605	Mexico 401; \$387
Potassium permanganate	181	363	Czech Republic 72; \$138
Manganites, manganates, and other permanganates	1	7	Canada 1; \$7
Exports:			
Manganese dioxide	424	320	Canada 289; \$112
Manganese oxides other than dioxide	809	798	Canada 327; \$157
Sulfates, basket category, including manganese sulfate	1,750	906	Canada 1,470; \$520
Potassium permanganate	61	131	Ireland 31; \$64
Manganites, manganates, and other permanganates	27	285	Germany 18; \$127

1/ Data are rounded to three significant digits.

2/ For imports, Customs value; for exports, f.a.s. value.

Source: Bureau of the Census.